

## Carolina mantleslug *Philomycus carolinianus*

Kingdom: Animalia

Division/Phylum: Mollusca

Class: Gastropoda

Order:

Family: Philomycidae

ILLINOIS STATUS common, native

### FEATURES

Two inches is the longest body length for this species. Slugs have a complex system of organs. The mouth contains a radula, a flexible, ribbonlike structure lined with rows of teeth, used to scrape food. On the head are tentacles. Most slugs in Illinois have an eye at the tip of each upper tentacle. Slugs have either a much-reduced shell, located under the mantle on the dorsal side, or no shell.

### BEHAVIORS

The Carolina mantleslug is one of Illinois' native slugs. It prefers moist, deciduous woodland habitats and does not invade gardens. When disturbed, it emits very sticky mucus to detract predators. Slugs need to seek sheltered places to live, eat and rest. They prefer to live in moist areas and are commonly found under logs, loose bark or coarse woody debris, and in leaf litter on the forest floor. Most slugs are hermaphrodites, possessing both male and female sex organs and gametes. When slugs mate, fertilization often occurs in both individuals, and both lay a clutch of eggs. Slugs lay their eggs in spring and fall. Eggs are deposited in a cool, damp place, often just under the soil's surface. The adult slug provides no care for the eggs. Hatching takes place in about seven to 10 days. The young slugs emerge and begin to search for food immediately. A slug's skin contains glands that produce mucus. The mucus prevents the slug from drying out and helps it move. During very hot, dry weather and during very cold periods, slugs may become inactive. Slugs eat live and decaying vegetation.

### HABITATS

Aquatic Habitats

none

Woodland Habitats

upland deciduous forests

Prairie and Edge Habitats

none

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